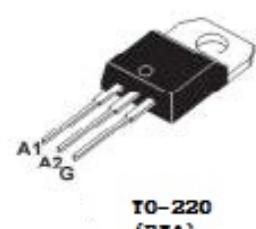
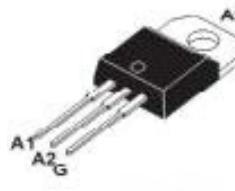


## ● Features

- \* NPNPN Bi-direction Triac
- \* Back multilayer metal electrode
- \* High temperature reliability
- \* Glass Passivated junction chips



## Application:

Power tool ,moto speed controller,Vacuum cleaner,heating temperature controller,  
Solid state relay and phase control circuits.

## ● Limiting Values

Symbol	Absolute maximum ratings parameters	Value	Unit
IT(RMS)	RMS on-state current	16	A
ITSM	Non repetitive surge peak on-state current	160	A
I <sup>2</sup> t	I <sup>2</sup> t value for fusing	144	A <sup>2</sup> S
di/dt	Critical rate of rise of on-state current	50	A/us
V <sub>DRM/V<sub>RRM</sub></sub>	Non repetitive surge peak off-state voltage	600	V
I <sub>GM</sub>	Peak gate current	4	A
P <sub>G(AV)</sub>	Average gate power dissipation	1	W
T <sub>stg</sub> T <sub>j</sub>	Storage junction temperature range Operating junction temperature range	-40 °C ~ +150 °C -40 °C ~ +125 °C	°C

● Electrical Characteristics( $T_a=25^\circ C$  unless otherwise specified)

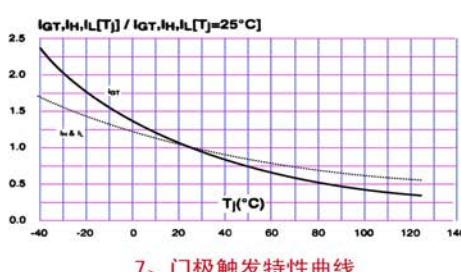
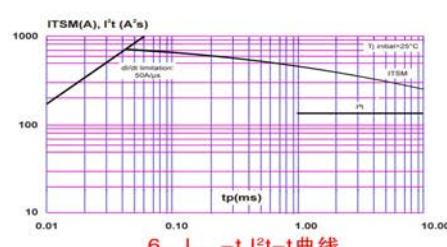
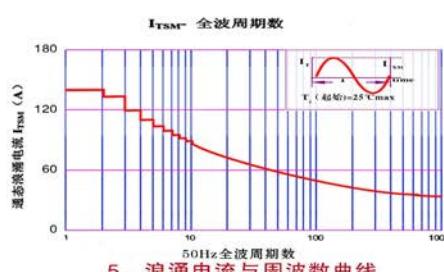
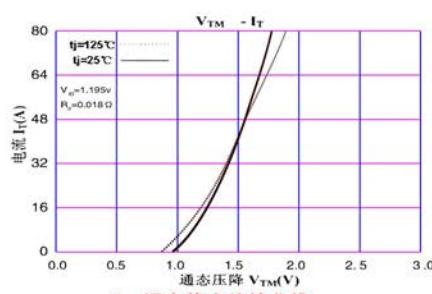
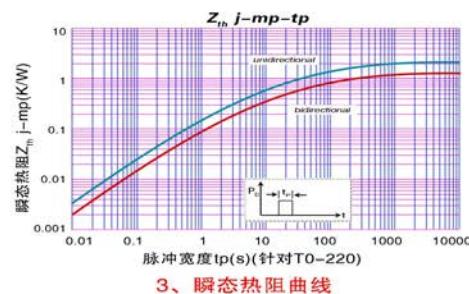
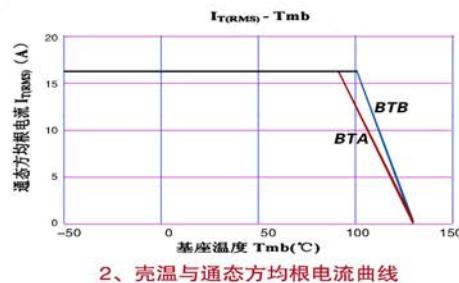
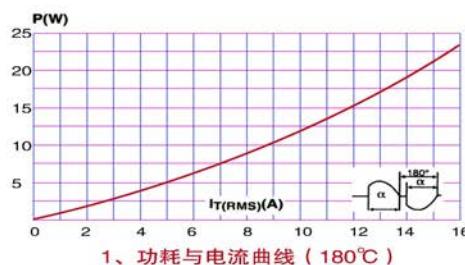
Symbol	Test Conditions	Quadrant		Value		Unit	
$I_{GT}$	$V_D=12V R_L=100\Omega$	I II III IV	MAX	$\leq 50$		mA	
$V_{GT}$			MAX	1.5		V	
$V_{GD}$			MIN	0.2		V	
$I_H$			MAX	60		mA	
$I_L$	$I_G=1.2I_{GT}$	MAX	I III IV	60	100	mA	
			II	100			
$dv/dt$	$V_D=2/3V_{DRM} T_j=125^\circ C$	MIN	500			V/us	
$(dv/dt)c$	$T_j=125^\circ C$	MIN	10			V/us	

## ● Static Characteristics

Symbol	Test Conditions		Value	Unit
$V_{TM}$	$I_{TM}= 32A T_j=25^\circ C$	MAX	1.50	V
$V_{TO}$	$T_j=125^\circ C$	MAX	0.87	V
$R_d$	$T_j=125^\circ C$	MAX	14.6	$m\Omega$
$I_{DRM}$ $I_{RRM}$	$T_j=25^\circ C$ $T_j=125^\circ C$	MAX	5	$\mu A$
			1	mA
$R_{th(j-c)}$	$BTA$		2.1	$^\circ C/W$
	$BTB$		1.3	

## ● Typical Characteristics

**BTA16,BTB16特性曲线(T0-220)**



## ● TO-220 Outline Package Dimension

Unit: mm ( $\pm 0.1$ )

